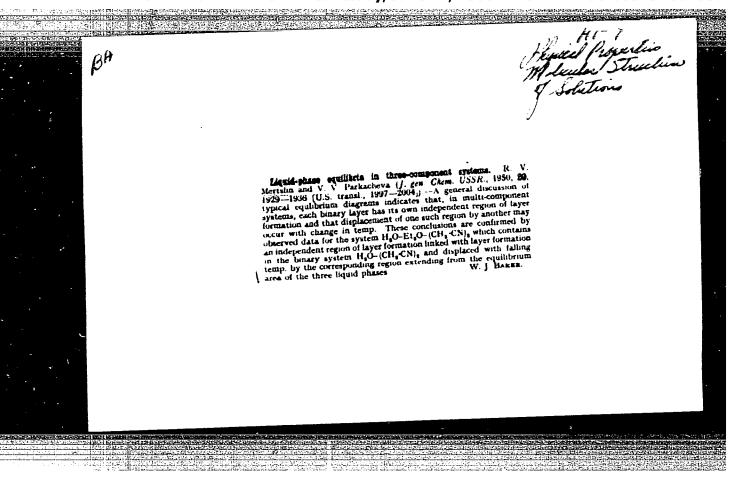
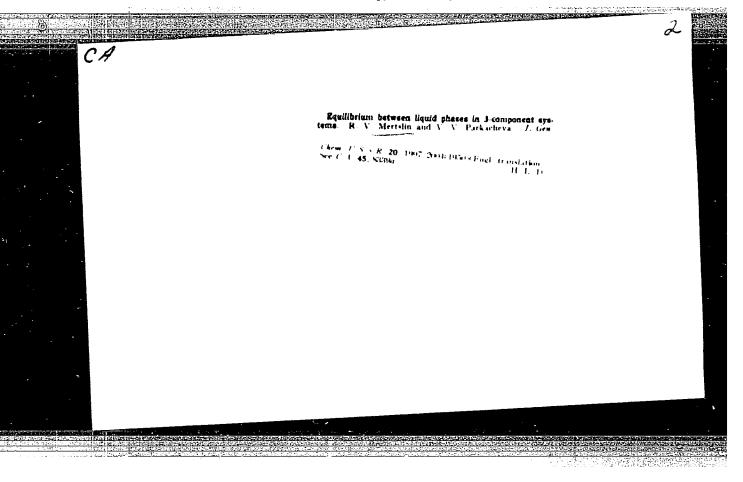


FISLIH, R. 7. "Salted-out Ternary Systems Containing Binary Irrational Prevailing Systems" Zhur. Obsheh. Thim., 10, No. 31, 1981. Shair of Inorganic Shemistry M. I tow State University. Received 9 April 1940. Report W-1612, 3 Van. 190.

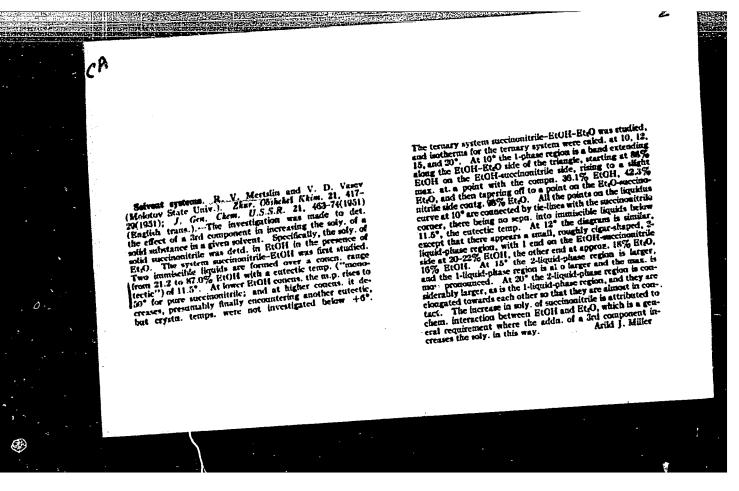
and the second	Crystallization of	ternary systems composed of two double layers. ekt. fiz. khim. anal. 18:33-59 49. (MIRA 11:4)			
	1. Gosuđarstvennyy	universitet, kafedra neorganicheskoy khimii,			
	g. Wolotov.	(Systems (Chemistry))			





"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA

CIA-RDP86-00513R001033



MERTSLIN, RV

USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. B-8

Equilibrium. Physicochemical Analysis. Phase Transitions.

Abs Jour : Referat Zhur - Khimiya, No 3, 1957, 7469

Author : Mertslin R.V.
Inst : Saratov University

Title : Investigation of Heterogeneous States of Multipcomponent

Systems

Orig Pub : Nauch. ezhegodnik za 1954 g. Saratovsk. un-ta, Saratov,

1955, 548-551

Abstract : A survey of work done by the author and his coworkers.

Card 1/1

- 94 -

AUTHORS:

Rikurashida, D. I., Mortolia, P. V. . 017/79-29-2-1/71

Komarova, 7

TITLE:

Investigation of the Equilibrium of Two Lindid Phanes in the System n.-Hexane-Mitrobenzene-Andline (Insl dovaniye raynove-siya dvukh zbidkith fan v sisteme n.-geksan-nitrobenzel-anilin)

PERICDICAL:

Zhurnal obcuckey khimii, 1,5,, 701 29, 8r 2, pp 345 - 550 (USSk)

ABSTRACT:

Fourtherms of practical importance concerning the extraction constituents, the decomposition by layers of the solutions, the decomposition by layers of the solution of the mutually soluble liquids by salting out, the drying of the constituence among mutually insoluble of distribution to third substance among mutually insoluble or weakly soluble liquids, hereafts distribution law does not content byte the prosability of a various in the reciprocal ratio of the components with the characteristic far as the problem concerning the distribution of the third component among two phases being in equilibrium considers the equilibrium of two liquid phases of systems consisting of three components, the relationship occurring in this connection

Card 1/3

Investigation of the Equilibrium of Two Liquid Phases 207/79-29-2-1/71 in the System n. Hexale-Mitrobennene-Amiline

help to approach the solution of the problem Mertslin, R. V. (Ref j) determined dectars reduce governing the distribution of nodes (lines linking the compositions of the conjugated solutions in the diagram triangle) in the runge of the twophase liquid equilibrium in the system consisting of three components. He showed that the character of the binedal curve and the distribution of the above-mentioned nodes within the decomposition by layers are intercelled. The purpose of the present paper was the experimental confirmation of the rules governing the distribution of the above-mentioned nodes in the system n.-hexade-aniline-nitrobedzene. The system was investigated with respect to solubility at 10 and 200. It is shown that the oritical point follows the system hexane- aniline - nitrobenmene. Based on Mertslin's mothod and firther invistigations a system of neder was plotted within the decomposition by layers and the rule laid down by him was this confirmed. There are 9 figures, 4 tables and A Soviet references.

Card 2/3

Investigation of the Equilibrium of two Diglid Thases DN7,79-29-2-1,71 in the System n.-Hexane-Mitrobennene-Anillne

ASSOCIATION: Saratovskiy gosudarstvo ryy universitet (Saratov State Uni-

versity)

TO BEING THE CONTROL OF THE SECOND CONTROL OF THE SECOND S

SUBMITIED: July 15, 1957

Card 3/3

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

AUTHORS:

SUV/79-29-2-2/71 Nikurashina, N. I., Komarova, G. M.,

Mertslin, R. V

TITLE:

Investigation of the Equilibrium of Three Liquid Phases in the Four-component System Water-n,-Hexane-Aniline-Nitrobenzene (Issledovaniye ravnovesiya trekh zhidkikh faz v chetyrekhkomponentnoy sisteme voda-n -geksan-anilin-nitrobenzol)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 350-357 (USSR)

ABSTRACT:

On investigating the equilibrium of two liquid phases in the sy). exame-aniline-nitrobenzene the authors had shown the regularity 1: the distribution of the nodes, determined by the interaction of the components in the predominant double system (Ref 1). The present paper is the further development of the "predominance theory", which is considered in a complicated case, i.e. the case of the four-component system water-n.hexane-aniline-nitrobenzene. As is shown by the investigations illustrated in the figures, ternary and binary systems ma; predominant in systems of such a type. In dependence on this circumstance the content formation of the three liquid phases, as well as its development may vary The purpose of the present paper was the experimental confirmation of the rule governing

card 1/2

CIA-RDP86-00513R001033 APPROVED FOR RELEASE: Wednesday, June 21, 2000

Investigation of the Equilibrium of Three Liquid SOV/79-29-2-2/71 Phases in the Four-component System Water-n.-Hexane-Aniline-Nitrobenzene

> the directional arrangement of the nodal diagram triangles of the three liquid phases in the system water-n -hexane-anilinenitrobenzene, as is done in detail in the experimental part. All horizontal sections offer the same picture concerning the range of the three existing liquid phases. The nodal triangles are in the same direction, parallel to the right of the secant, which is drawn to the nitrobenzene-aniline. It was shown that the sectional method can be used to investigate the equilibrium of the three liquid phases in four-component systems. The rule concerning the directional arrangement of nodes was found to be valid also in the case of four-component systems. There are

11 figures, 4 tables, and 3 Soviet references.

ASSOCIATION:

Saratovskiy gosudarstvennyy universitet (Saratov State Uni-

versity)

SUBMITTED:

July 15, 195?

Card 2/2

5 (2)

AUTHORS:

Mertslin, R. V., Nikurashina, N. I.

SOV/79-29-8-4/81

TITLE:

On the Methods and Laws of the Establishment of Equilibrium of

the Four Liquid Phases in Condensed Quaternary Systems

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2474 - 2480

(USSP)

ABSTRACT:

In contrast to some papers on the equilibrium of two- and three-phase liquid physical states, no systematic investigations of the equilibrium of the liquid phases in the above systems have hitherto been published. The systematic solution of the problems raised by the equilibrium of the number of liquid phases within systems of a different number of components, is, however, only possible by determination of the mode of formation of the maximum number of liquid phases within a system of given number of components and by determination of its laws of formation. The authors attempted to explain the manner in which the state of the four liquid phases appears in the quaternary system. The mode of formation of the four phases within the quaternary system is assumed to be connected with the mode of formation of the three liquid phases within the ternary system. It was shown that the temperature at the beginning of formation

Card 1/2

On the Methods and Laws of the Establishment of Equilibrium of the Four Liquid Phases in Condensed Quaternary Systems

SOV/79-29-8-4/81

of the four-phase state within the quaternary system must be higher than the temperatures at the beginning of formation of the three-phase state within two ternary systems enclosing the predominant binary system, and that in some cases it must exceed the temperatures at the beginning of formation of the three-phase state within the three enclosing three-phase systems. Near the temperatures at which the four-phase state is attained, two faces of the tetrahedron of the four-phase state must have the same direction, which corresponds to the law of direction of the triangles of the three liquid phases within the quaternary system with a predominant binary system (Figures). There are 9 figures and 2 Soviet references.

ASSOCIATION: Saratovskiy gosudarstvennyy universitet (Saratov State Uni-

versity)

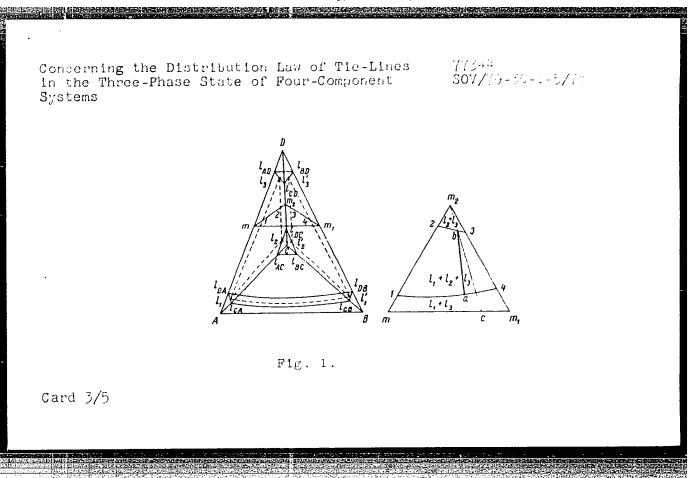
SUBMITTED:

December 19, 1957

Card 2/2

5 4210 AUTHORS: Mertsilin, R. V., Mizharina TITLE: Concerning the District often Law of The Lines in the Three-Phase State of Four-Time was tope time PERIODICAL: Zharral obstaner zririt, . , 0 % % % % % % . , it ABSTRACT: A Striatgraph Harrist whose ogstones beregisher e diffierent formorents andeam onde som some som som seems. Illustrates a terrain configure con content romponert spatem fir be stmllar, vier pagerte (im nog) equiliateral totargles that form a fathage form. Let restor in the publishing terms after ARTD of Pigning resent a tuned-probe tate of enumaries for the after sent regions of two-prace states of contract states. Then, any servior mm, mo paralogo to the pass of the terribe elect and and section that contains ease DC and each degree RE septembers the ones some settles with the each of the σ aystem. Will hame hopes wentform of the religion of the be-Card 1/4 phase state, in the former sention rount for two hands

Concerning tre Distribution Law of The-Lives in the Three-Phase State of Four-Your order Symtems lines, in the latter by three or end, i.e. 3 has the distribution of tie-lines in total value destions of the system is a function of matter the latter of the companies of the companies. ponents, the completely mishible path AB resores thesislent among the total of six pairs. This can be realized from the fact that him was if any live separating the sign \mathfrak{II} two-large tries-crass consists on section which so we have are tasi allo setainines in the mutual relation ris of A and Bottomeria. Phase in which others in each area Is composed of Digital after Afth three compagnitudes ABC while that is the comogeneous subtom ABC arated with 1 . Since D is possible in this with $A \in \mathbb{R}^{n}$ and C. and C is poorly missible with A and B. the selationship between the latter two organizations to termines the composition of chase 1, Consequently, the litres frank norizontal section of the composition fettal ector are oriented, depending or AB, as followers, y fite-likes inside with most direction (Fire L.) when A and Find or Cari 2/5 interact on itseoclate. (2) they demain from mys to the



Concerning the Distribution Law of Tie-Lines in the Three-Phase State of Four-Component Systems

77344 SOV/79-36-1-5/78

right or to the left, in the direction opposite to the critical point of three-phase state, when binary system AB tends to dissociate; (3) they deviate both to the right and to the left when pair AB contains nondissociated compound V (Fig. 4); (4) the most variegated deviations occur when compound V dissociates and curves 23 and 14 become gradually bent at S and S' (Fig. 5). There are 5 figures.

ASSOCIATION:

Saratov State University (Saratovskiy gosudarstvennyy

universitet)

SUBMITTED:

February 26, 1958

Card 4/5

NAUMOVA, I.P.; NIKURASHINA, N.I.; MERTSLIN, R.V.

Equilibrium between three liquid phases in four-component systems involving a predominant system with a chemical compound. Zhur.ob. khim. 30 no.10:3162-3166 0 161. (MIRA 14:4)

MERTSLIN, R.V.; NIDURASHINA, N.I.

Properties of the layer separation field in ternary systems including one binary predominating system. Part 1. Zhur.fiz. khim. 35 no.11:2616-2622 N :61. (MIRA 14:12)

1. Saratovskiy gosudarstvennyy universitet. (Systems(Chemistry))

MERTSLIN, R.V.; NIKURASHINA, N.I.; KAMAYEVSKAYA, L.A.

Properties of the layer separation field in ternary systems including one predominating system. Part 2. Zhur.fiz.khim. 35 no.11:2628-2632 N '61. (MIRA 14:12)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

MERTSLIN, R.V.; NIKURASHINA, N.I.; PETROV, V.A. Properties of the layer separation field of ternary systems (MIRA 14:12)

containing a predominating binary system. Part 3. Zhur.fiz. (MIRA 14:12) khim. 35 no.12:2770-2774 D 161.

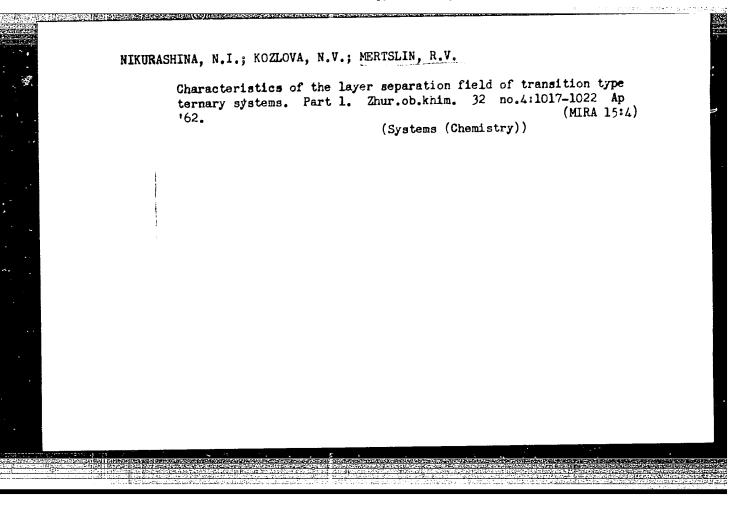
1. Saratovskiy gosudarstvennyy universitet imeni N.G. Chernyshevskogo.

(Systems (Chemistry))

RADYSHEVSKAYA, C.S.; NIKURASHINA, N.I.; MERTSLIN, R.V.

Temperature dependence of the equilibrium of three liquid phases in four-component systems. Zhur.ob.khim. 32 no.3: 673-676 Mr '62. (MIRA 15:3)

1. Saratovskiy gosudarstvennyy universitet. (Systems (Chemistry)) (Phase rule and equilibrium)



MERTSLIN, R.V.; NIKURASHINA, N.I.; NAUMOVA, P.I.

Transition temperatures of multiphase liquid states. Zhur.ob. (MIRA 15:5)

1. Saratovskiy gosudarstvennyy universitet. (Phase rule and equilibrium)

MERTSLIN, R.V.; NIKURASHINA, N.I.

Characteristics of the demixing field of transition-type ternary systems. Part 2. Zhur.ob.khim. 32 no.10:3122-3130 0 '62. (MIRA 15:11)

MERTSLIN, R.V.; NIKURASHINA, N.I., KAMAYEVSKAYA, L.A.

Properties of the field of demixing of ternary systems comprising one preponderant binary system. Part 4. Zhur. fiz. khim. 36 no.11:2491-2495 N'62. (MIRA 17:5)

1. Saratovskiy universitet, kafedra fiziko-khimicheskogo analiza.

MERTSLIN, R.V.; NIKURASHINA, N.I.

Characteristics of the layer separation field in ternary

transition type systems. Part 4. Zhur. ob. khim. 33 no.8: 2440-2448 Ag '63. (MIRA 16:11)

1. Saratovskiy gosudarstvennyy universitet.

MERTSLIN, R.V.; NIKURASHINA, N.I.

"Correlation curves" of the layer separation field of ternary systems.
Zhur.fiz.khim. 37 no.7:1267-1271 J1 '63. (MIRA 17:2)

Saratovskiy gosudarstvennyy universitet.

MERTSLIN, R.V.; NIKURASHINA, N.I.

Properties of the demixing field in the system water - gyridine-aniline. Zhur. ob. khim. 34 no. 3:715-718 Mr 'o4. (MIRA 17:6)

1. Saratovskiy gosudarstvennyy universitet.

MERTSLIN, R.V.; NIKURASHINA, N.I.

Properties of the demixing field of ternary liquid systems containing a predominant binary system. Zhur. fiz. khim. 39 no.3:710-716 Mr '65.

(MIRA 18:7)

1. Saratovskiy gosudarstvennyy universitet imeni Chernyshevskogo.

aboratory); Zalkind, S. 18. (1101) ortsling, T. G. ortsling, T. G. ortsling, T. G. ortsling, T. G.	s/0219/65/059/003/0068/007122 of medical sciences, Head of brucellosis Head of viral cytopatholy laboratory); gens on splenic cell cultures of
ensitized guinea pigs BOURCE: Byulleten' eksperimental's BOURCE:	noy biologii i meditsiny, v. 59,
ABSTRACT: The effect of brucellos investigated in tissue cultures of brucella, E. coli, and human gamma at the height of sensitization and cells were prepared for culturing At the time the splenic cells (5 x	is antigens on splenic cells was guinea pigs sensitized with globulin. Animals were decapitated spleens were extracted. Splenic in a test tube containing mica.

MONESPATON NUT	AF5009193	
after culturing two walls we mater. The capture of the contage of vision. Brucon splenic ce in absolute collevel of lympany marked cy of animals secretoxin actinic rection of the contage of animals	anged. Mica slides were stained 24, 48, 7 ag for bistological investigation. Cells re separated with tryps in and measured wit ytotoxin index was based on the average nu found in test tubes divided by the average rol test tubes. Microscopic examinations damaged cells per 1,000 count in the variellosis antigen action produced a marked cells sensitized with brucella cheracterized ell count, macrophage damage, and reduced hold cells. The brucellosis antigens did totoxic effect on the splanic cells of heat nsitized with E. coli or human gamma globut ion mechanism appears to be specific and ref the antigens with the antibodies present	mber of cells number of determined the ous fields of ytotoxic effect by a decrease percentage not produce lthy animals or lin. The elated to
	lls. Orig. art. has: 2 figures. Laboratoriya virusnoy tsitopatologii Mosk dovatel'skogo instituta virusnykh preparat iya SSSR (Viral Cytopathology Laboratory of the	ovakogo

ACCESSION NR: AP5009193					3	
Research Institute of Viral Preparations of the Ministry of Health SSSR) Laboratoriya brutselleza Instituta meditsinskoy parazitologii i tropicheskoy meditsiny Ministerstva zdravookhraneniya Gruzinskoy SSR, Tbilisi (Brucellosis Inboratory of the Institute of Medical Parasitology and Tropical Medicine of Ministry of Health of the Georgian SSR)						
SUBJITTED: 12Jul64	ENCL:	00		SUB CODE:	LS	
NR REF SOV: > 001	OTHER:	006				
한 사람들이 이 불편하다. 나를 받는 사람들이 되었다.					دموائد باعالمدی نشهٔ چنگ بولاد دارد	de Vedit

MERTSLIN-ORCDA, M. S.

"Tubercular-Allergic Inflammation of the Tissues of the Eye in Patients Suffering From Trachome." Sub 23 Apr 51, First Moscow Order of Lenin Medical Inst.

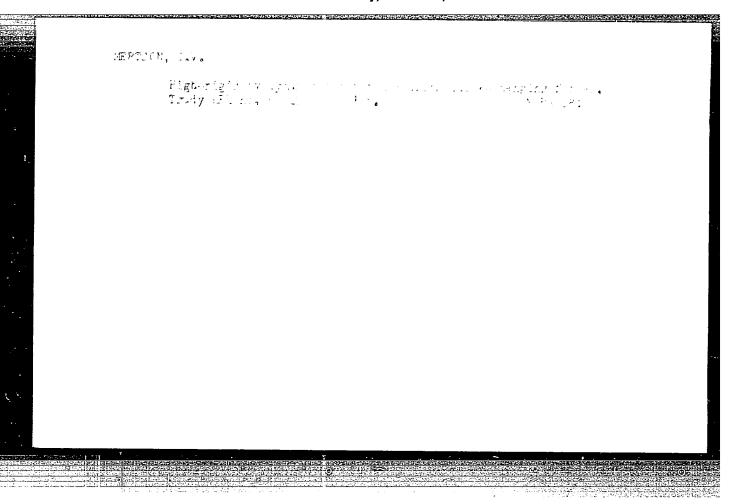
Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

MERTSON, I.V., inzh.

Friction vibration dampere used in turning nonrigid shafts.
Vest.mashinostr. 44 no.12:49-50 D'64.

(MIRA 18:2)



R: AT6018669	SOURCE COD	E: UR/2563/65	/000/250/0100/	0103
R: Mertson, I. V.				35-
none			e Barana B	3+1
기업은 제공화하를 보스 모드는 그리				1.
: High-rigidity dynamometer for	measurement o	f rapidly chan	ging forces aw	1
E: Leningrad. Politekhnicheskiy	institut. Tr	ıtd v . no. 250	1965, 100-103	
TAOS: piezoelectric transducer,	lathe, oscill	ograph, voltme	ter, metal tur	ning
ACT: For measurement of the for ng of metal parts, a dynamometer	ces involved in	n multiple bla	de Lathe	
ively flexible mounting (as is r	or nigh rigid couired for go	required as required to the control of the control	a. since a	
nt in all currently known design	s) of any blade	would essent	ially change	
perating conditions of the lathe	. With multip	le blades, the	mounting	
also be very small. The piezoel equirements for rigidity, but do	not transmit	ers now used	satisty forces	
easurement. In order to satisfy	this requireme	ent. two-sided	mounting	
ezoelectric transducers was used	, with the two	oppositely mor	inted	1.3
ducer elements connected with re	versed electric	cal polarity.	A vacuum	
voltmeter connected with an osci apparatus. Orig. art. has: 3 fig	ures and I for	ermanent readoi	r combreged	
The remaining the Parker of 1700 to The		12. 27		
ODE: 13, 09 / SUBM DATE: nor	e / Orio ref	1 002 / OTH	REF: 001	

CHEL'TSOV, V.S.; ARBUZOV, G.I.; MERTIS, K.L.

dieniamento e como estado en construir con en construir de la construir de la construir de la construir de la c

Research in the realm of the color development of multilayer films.
Trudy WIKFI no.7:117-122 47. (MIRA 11:6)

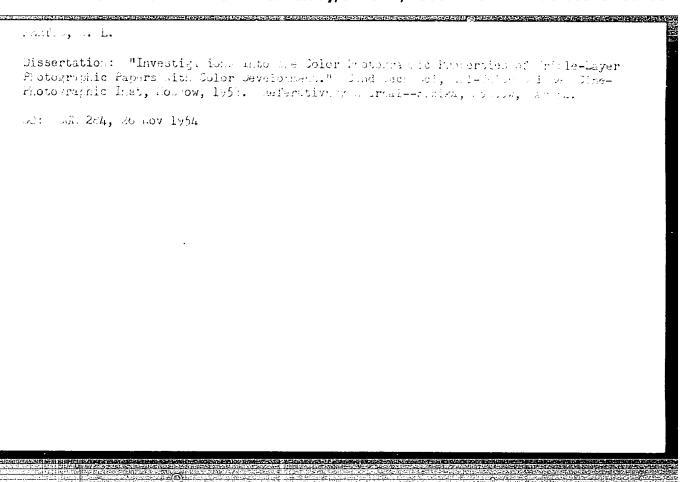
l. Iaboratoriya tsvetnykh izobrazheniy Kauchno-issledovatel skogo kino-foto-instituta, Moskva.

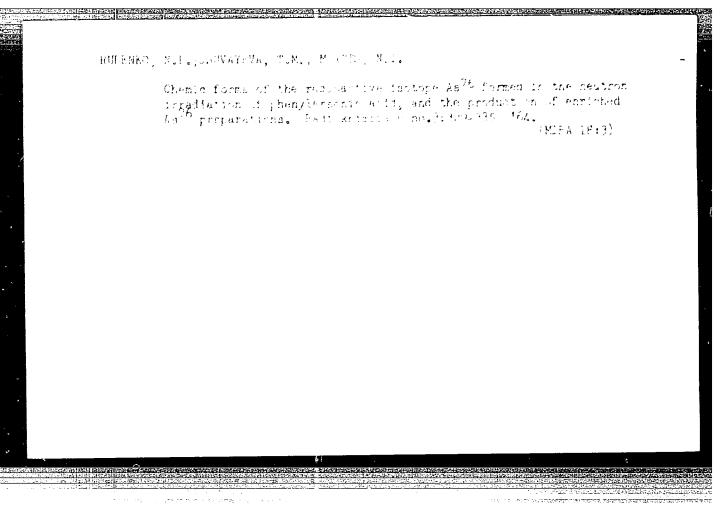
(Color photography)

MERTTS, K. L.
Technology

("olor Photography) Moskva, Goskinoizdat 1950

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.





```
"Excology of the European Deer Under Conditions in the Usman Forest."

Cand Biol Sci. Moscow State U. Moscow, 1953. (RZhBiol, No l. en 54)

30: Sum 432, 27 Mar 55
```

MERT VETSOVA, M.A.

Mathematical Revious
v. 15, No. 1
Tan. 1954
ANALYSIS

1-13-54

44

Mertvecova, M. A. Analogue of the process of tangent hyperbolas for general functional equations. Doklady Akad. Nauk SSSR (N.S.) 88, 611-614 (1953). (Russian) for solving an equation f(x) = 0 in the complex field, as discussed by Salchov [same Doklady (N.S.) 82, 525-528 (1952); these Rev. 14, 91] Following the work of Kantorovich and others for Newton's method, the author extends the process to solve (*) P(x) = 0, where P carries a normed space X into a like space Y, and has a third Fréchet differential. The formula is $x_{n+1} = x_n - Q_n \Gamma_n P(x_n)$, where $\Gamma_n = [P'(x_n)]^{-1}$ and $Q_n = [I - 2^{-1}\Gamma_n P''(x_n)\Gamma_n P(x_n)]^{-1}$. In two theorems the author gives conditions for (*) to have a unique solution x^* in a region of X, and estimates the size of $||x_n - x^*||$, which vanishes like $2^{-n}C^{2^n}$, 0 < C < 1. The process is applied to a class of nonlinear integral equations, and one numerical example is cited. G. E. Forsythe.

SALETHOV, G.S.; MENTVETSOVA, M.A.

Convergence of some iterative processes, Isv. Kazan. fil. AM SSSR.
Ser. fiz.-mat. 1 tekh. nauk no.5:77-108 '54. (MIRA 8:7)

1. Fiziko-tekhnichaskiy institut Kazanskogo filiala AM SSSR.

(Functional equations)

One approximate conjugation method of nonlinear functional equations. Izv.Kazan.fil. AK cork.Ser.fiz.mat.i tekh.mauk no.5:136-163 %5. (MIRA 16:3) 1.Fiziko-te micheskiv institut Kansaskogo filiala akademii mauk sast. (Approximate computation) (Functional equations)

1-25238-65 END(j)/ENG(r)/ENT(m)/EPY(c)/EPF(n)-2/EPR/ENP(j)/T/ENA(h)/ENA(l Pc-L/Pe-5/Fr-L/Ps-L/Pu-L/Peb RFL \G/RM/WW 5/0073/64/030/012/1318/1321 ACCESSION NR: AP5002750 AUTHOR: Kornev, K.A.; Kachan, A.A.; Chervyatsova, L.L., Polak, L.S.; Mertvichenko, Ye. F.; Demchenko, S.S. TITLE: Kinetics of the radiochemical graft copolymerization of crylonitrile with capron SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 12, 1964, 1319-1321 TOPIC TAGS: vapor seeding copolymerization, capron fiber, acrylonitrile vapor, copolymerization constant, radiation polymerization, graft copolymer, polyacrylonitrile ABSTRACT: Degreased, drawn, capron fiber was irradiated (Co60 source, 1600 curies, 100 rad/sec, 10-3 mm Hg, room temperature, 0.25 Mrad) and exposed to an acrylcnitrile vapor at 80 mm pressure in a study of the kinetics of vapor seeding graft copolymerization which does not involve formation of a homopolymer. Graphs illustrate the effects of temperature (22-60C, 0-24 hrs), radiation dosage (0-20 Mrad) and monomer vapor pressure (30-80 mm Hg, 0-10 hrs). The authors calculated constants for the rate of chain growth, rate of chain disruption, the apparent activation energy (1.9 Kcal/mol), activation energy of chain growth and chain disruption, the average distance between initiation centers (120 A) and the average lengths of chains. An increase in monomer Card 1/2

L 25238-65
ACCESSION NR: AP5002750

vapor pressure led to an increase in the quantity of copolymerized polyacrylonitrile. An increase in temporature decreased the amount of copolymerization, while an increase in radiation dosage above 2 Mrad had little effect. "The authors are indebted to A. Ya. Rozovskiy for participating in the evaluation of the results". Orig. art. has:
4 figures and 1 formula.

ASSOCIATION: Institut vysokomolekulyarnykh soyedinenty AN SSSR (High polymer institute, AN SSSR)

SUBMITTED: 25Dec63 ENCL: 00 SUB CODE: OC

NO REF SOV: 903 OTHER: 905

L 14492-66 EWT(m)/EWP(j)/T ACC NR: AT6006237 SOURCE CODE: UR/0000/65/000/000/0015/0017 Mertvichenko, Ye. F.; Demchenko, S. S. ORG: Institute of the Chemistry of Macromolecular Compounds, AN UkrSSR, Kiev ORG: Institute or the Chemistry of Factorial AN UkrSSR) (Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR) TITLE: Physical and mechanical properties of capron fiber modified by grafting of polyacrylonitrile SOURCE: AN UkrSSR. Modifikatsiya svoystv polimerov i polimernykh materialov (Modification of the properties of polymers and polymeric materials). Kiev, Naukova dumka, 1965, 15-17. TOPIC TAGS: nylon, caprone fiber, acrylonitrile, graft copolymer ABSTRACT: A study has been made of the strength of capron-fiber-acrylonitrile graft copolymers prepared by radiation-induced gas-phase graft-copolymerization. Acrylonitrile in the gaseous state was grafted to capron cord no 34.5 which had been preirradiated with γ-rays from a Co⁶⁰ source. Dose rate was 100 rad/sec. The effect of the number and length of grafted chains on the strength of the copolymer was studied. The number of grafted chains was varied by controlling the irradiation dose. The grafted chain length was modified by controlling the reaction time. The results of tensile tests showed that: 1) irradiation of the original fiber lowers its tensile strength by increasing the number of surface defects, and 2) the

ACC NR. A		d fiber is d	etermined so	olely by t	he total and	ount of the	
grafted la The highes The study	yer and does t strength wa resulted in t ing" of its s	s exhibited he conclusion urface defec	by fibers co	ntaining	4 to 5% poly	grafted chains. yacrylonitrile. r is the result onitrile. Orig. [BO]	
	2 figures an		/ ORIG REF	: 004/ 0	TH REF: 00	1/ ATD PRESS: 4/99	
					٠, ,		
			,		•		
							-
					•		-
QC)							

VASILENOK, S.T., nauchnyy sotrudnik; MERTVISHCHEV, L.V., nauchnyy sotrudnik

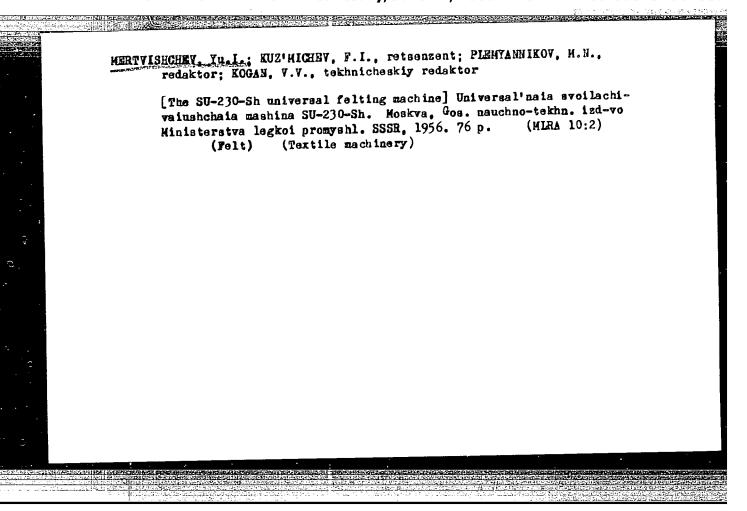
Effect of selective felling on the reforestation and growth of plantations in Yakutia. Trudy VSNIPILesdrov no.11:35-48 64. (MIRA 18:11)

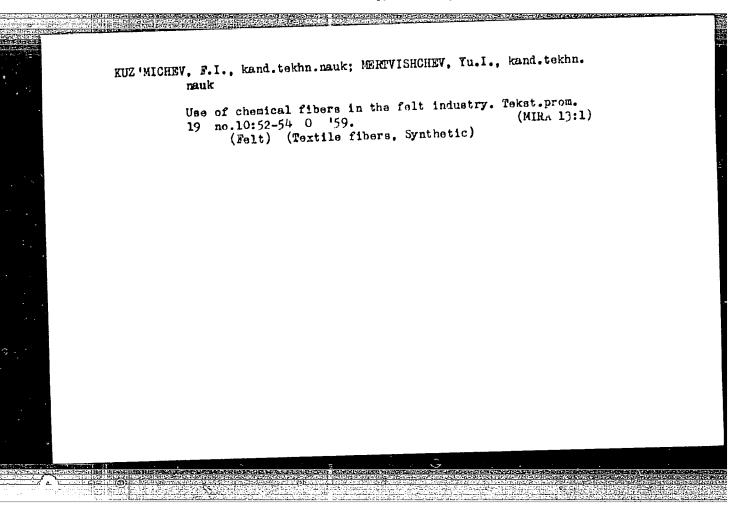
l. Laboratoriya lesovosstanovleniya Vostochno-Sibirskogo nauchno-issledovatel skogo i proyektnogo instituta lesnoy i derevoobrabatyvayushchey promyshlennosti.

Felt
Use of staple caprone fiber in felt production,

Leg. prom., 12 No. 4, 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.



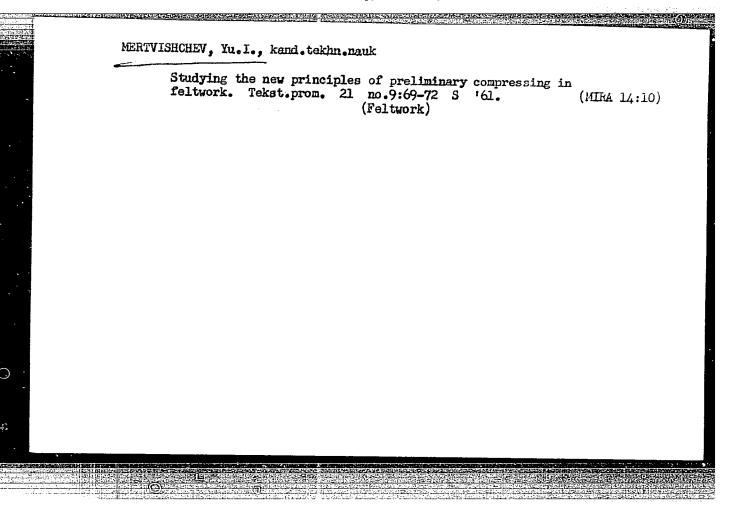


KUZ'MICHEV, F.; MERTVISHCHEV. Yu.

Fibers mixed with wool. Prom. koop. 14 no.5:25 ky '60.

(Textile fibers, Synthetic)

(FeIt)



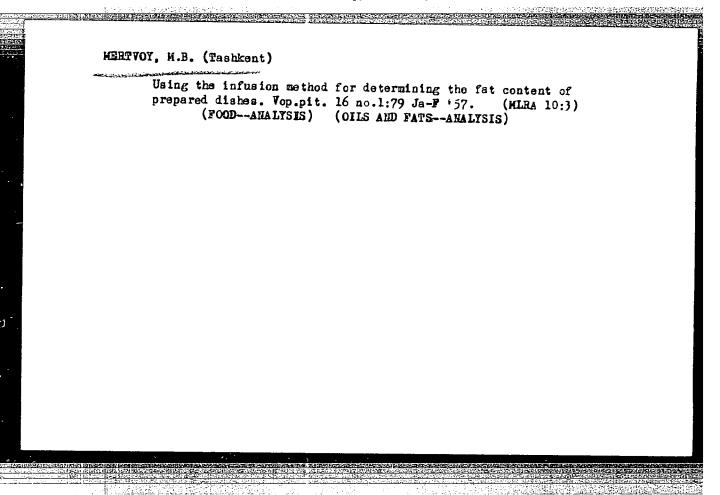
MERTVISHCHEV, Yuriy Ivanovich; KUZ'MICHEV, F.I., kand. tekhn. nauk, retsenzent; PLEMYANNIKOV, M.N., red.; BATYREVA, G.G., tekhn. red.

[Use of synthetic fibers in the felt industry] Ispol'zovanie iskusstvennykh volokon v valial'no-voilochnoi promyshlennosti. Moskva, Rostekhizdat, 1963. 115 p. (MIRA 16:4) (Synthetic fibers) (Nonwoven materials) (Felt)

TENT TOTOLTVA, 3. G.

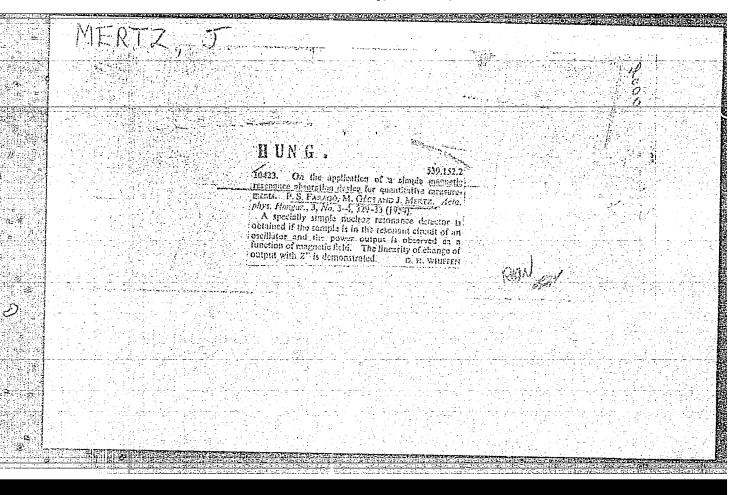
"The Nature and Conditions of the Antagonistic Relationships of Certain Soil Bacteria and Actinomycetes." Cand Biol Sci, Moscow Order of Lenin State U imeni M. V. Lomonosov, 1 Oct 547 (VM, 21 Sep 54)

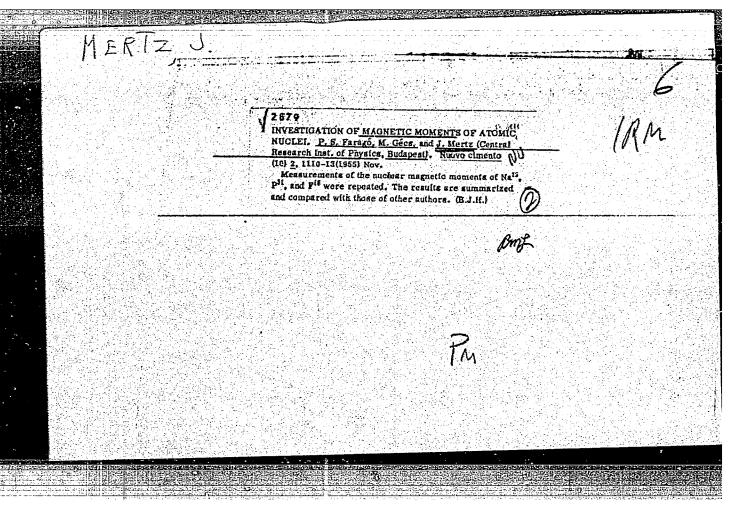
SO: 3um 432, 29 "ar 55



MERTVYACHENKO, F., polkovnik

Over-all execution of firing problems. Voen.vest. 42 no.5:80-81
My '62. (Shooting, Military)





USSR / Forestry. Forest Management.

Abs Jour: Ref Zhur-Biol., No 7, 1958, 29537.

: Merukyan, S. M. Author

: Not given. Inst

: The Sovkhoz Forests of Yegor'yevskiy Rayon in Title

Moscow Oblast' and Management.

(Sovkhozzyye lesa Yegor'yevskogo rayona Moskovskoy oblasti i vedeniye khozyaystva v nikh).

Crig Pub: Dokl. Mosk, s.-kh. akad. im. K.A. Timiryazeva,

1957, vyp. 29, 339-344.

Abstract: The state and distribution of kolkhoz forests

are analyzed by rayon. The basic valuation indices for the conifercus and deciduous woods are given and the dimension of forest use are indicated. The economic expediency of uniformly

selective fellings is noted.

Card 1/1

44

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

MERUNKA, R.

Introducing business accounting in machine-tractor stations. p. 150.

Vol. 6, no. 8, Apr. 1956

SPORNIK. RAD A MECHANISACE A FLETFIFIKACE ZEMEDELSTVI A LESNICTVI

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 11 Nov. 1956

5/079/62/032/012/004/003 D424/D307

AUTHORS:

Gershkovich, Zh., Duvalma, K., Meruyu, Ye., Smorzh-

evskaya, I.., Vaynberg, II. and Norletyanu, Ye.

TITLE:

roduction of isoprene from dimethyldioxan. I. The

role of catalyst and support

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 12, 1962,

3987-3990

In connection with work carried out at the authors' Institute in Sucharest on the production of isoprene from isobutylene and formaldehyde via 4,4-dimethyl-1,3-dioxan (MD), the effect of the composition of the catalyst for the vapor-phase conversion of DED to isoprene on its selectivity, isomerizing effect, etc. has been studied. Standard conditions found to be optimal in preliminbeen studied. Standard conditions round to be optimal in preliminary experiments were used, namely: 270°C and a space velocity of feed of DrD of 0.4 hr-1. The highest activity was possessed by a catalyst consisting of acid calcium phosphate on a silica/5% alumina catalyst, the nature of the support being important. With this cata-

Card 1/2

Production of isoprene

S/079/62/032/012/004/008 D424/D307

lyst, the selectivity fell as the temperature was increased from 150 to 350°C but the maximum total conversion (~65%) was obtained at ~300°C, the selectivity then being of the order of 85%. By-products found (by gas chromatography) included isobutylene, 2-methylbut-2-ene, methyldihydropyran, 2-methylbutan-1-ol, isovaleraldehyde, and dimers and trimers of isoprene. The fact that the support alone had a small catalytic activity due to its lewis acid sites and leading mainly to isobutylene is considered to show that the activity of the calcium phosphate catalyst depends on the presence of Brönsted acid sites. The catalyst is not appreciably affected by the usual impurities in DD but is poisoned by sulfur (mercaptans). It can also be used for the production of other dienes, e.g. 2-phenylbutadiene, by analogous reactions. There are 5 figures.

ASSOCIATION:

Khimicheskiy issledovatel'skiy institut, Bucharest

(Chemical Research Institute, Bucharest)

SUBMITTED:

February 24, 1961

Card 2/2

3/079/62/032/012/006/003 D424/D307

AUTHORG:

Gershkovich, Jh., Duvalma, H., Meruyu, Ye, , Jfitses-ku, R., Morletyanu, Ye., Vaynberg, H. and Smorzhov-

skaya, 1...

TITIE:

Production of isoprene from dimethyldioxan. III.

Acidity and activity of the cracking catalyst

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 12, 1962,

3992-3997

The present article deals with the production of isoprene by the vapor-phase catalytic cracking of dimethyldioxan and shows that the activity of the catalyst desends on the presence of Bronsted acid sites, the reaction being analogous to that carried out in solution with acid catalysts. The catalysts used in the present work were prepared by calcining silica + 5% of alumina at 500°C, sent work were prepared by calcining silica + 5% of alumina at 500°C, impregnating this support with solutions of phosphates (sodium, aminpregnating this support with solutions of phosphates (sodium, amonium, calcium, etc.) of various concentrations, and calcining at monium, calcium, etc.) of various concentrations, and calcining at 400°C. The proton acidity of the catalysts was measured by ion-ex-

Card 1/3

CIA-RDP86-00513R001033

APPROVED FOR RELEASE: Wednesday, June 21, 2000

Production of isoprene ...

3/079/62/032/012/006/008 D424/D307

change with neutral ammonium acetate solutic, and their surface area by a simplified 3.77 method. Plotting the increase in activity (total conversion under standard conditions) of the catalyst against increase in proton acidity gives a characteristic curve consisting of two rectilinear sections, the slope suddenly becoming more pronounced at a content of active phase in the catalyst of about 40, corresponding to an acidity of 0.050 m-equiv/g. The selectivity also rises very rapidly and linearly, up to a proton acidity of about 0.10 m-equiv/g, after which it continues to rise very slowly, the conversion of dimethyldioxan to isoprene, however, remaining constant (because of a slight decrease in the total conversion) at about 47% under standard conditions (after 3 hrs with a space velocity of 0.4 hr-1, at 300°C). The relationship between the firstorder velocity constant and the acidity of the catalyst is similar to that for homogeneous acid catalysis. The specific surface of the catalyst falls as the content of active phase is increased from O to 34%, except that at 2% it is greater than at 5%. During working, as the catalyst becomes coated with 'coke' its acidity diminishes and the conversion falls, the selectivity increasing slightly. Card 2/3

Production of isoprene ...

5/079/62/032/012/006/008

The nature of the curve of the increase in acidity with the amount of active phase is explained by the formation of aggregation polymers by the phosphate on the surface of the support. The dependence of the activity on the proton acidity is explained by the formation of active surface compounds by the dimethyldioxan at the Bronsted acid sites. The levelling off of the conversion to isoprene at a certain acidity is due to the decreased specific surface and consequent decreased adsorption. The main side reaction - the production of isobutylene - takes place at both Bronsted and lewis acid sites and is therefore independent of the presence of the active phase. Because the Bronsted acid sites are screened to some extent from 'coking up' by their adsorption of the dimethyldioxan, the Lewis acid sites are lost more rapidly during the working of the catalyst, which accounts for the increase in selectivity during working. There are 6 figures and 2 tables.

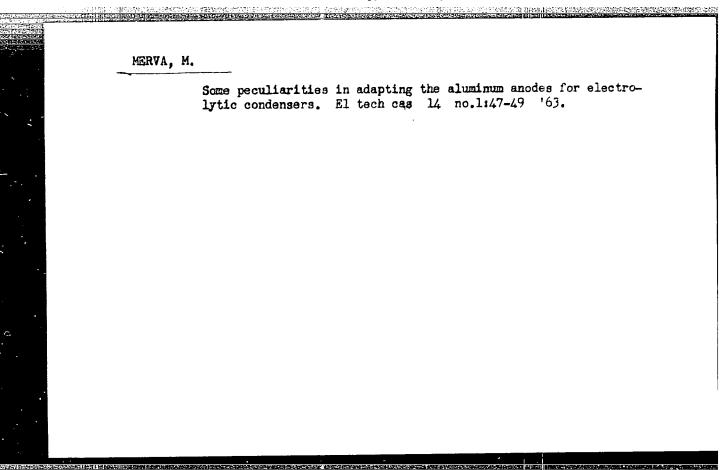
ASSOCIATION:

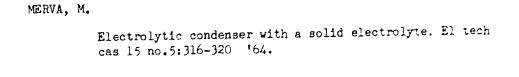
Khimicheskiye issledovatel'skiy institut, Bucharest (Chemical Research Institute, Bucharest)

SUBMITTED:

May 22, 1961

Card 3/3





MERVA, S.			
	Fromatico (1916-1916) (emperatorio), Albito	igner e im mur all beset blade. Distriction e de de extende	

PAULIK, Juraj, inz. CSc.; DRIBNAK, Andrej, RNDr.; MERVA, Milan, inz.

Theoretical and experimental analysis of the methods of automatic direction and position keeping of coal cutter-loaders. Automatizace 7 no.8:201-203 Ag 164.

1. Institute of Mining, Slovak Academy of Sciences, Mosice.

MERVART, J.

The one who really directs research work, p. 221, RUDY (Ministerstvo hutniho prumyslu a rudnych dolu) Praha, Vol. 3, No. 7, July 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 1955

MERVART, J.

Smaller initial profiles, greater general effectiveness. p. 309.

RUDY Vol. 3, no. 10, Oct. 1955

Czechoslovakia

Source: EAST EUROFEAN LISTS Vol. 5, no. 7 July 1956

LERVART, J.

Determination of the quantity of chips and the draree of washing it core boring. p. 49.

Vol. 4, no. 2, Feb. 1956 RUDY Praha, Gzechoslovakia

Source: East Auropean Accession List. Litrary of Congress Vol. 5, c. 7, August 1956

```
MERVART, J.

Uniform budgets in surveying. p.166.
(Rudy, Vol. 5, No. 5, May 1957, Praha, Czechoslovakia)

SC: Monthly List of East European Accessions (EEAL) 17. Vol. 6, So. 6, Sept. 1957. Uncl.
```

MERVART, J.

Our first experience with steel shot.

P. 247, (Rudy) Vol. 5, no. 7, July 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

ELEVARY, J.

TECHNOLOGY

periodical: RULY Vol. 6, no. 7, July 105*

MERWART, J. Vibrators in prespecting. p. 232.

Conthly list of Lant European Accessions (N-AT) 10 Vol. , no. 5

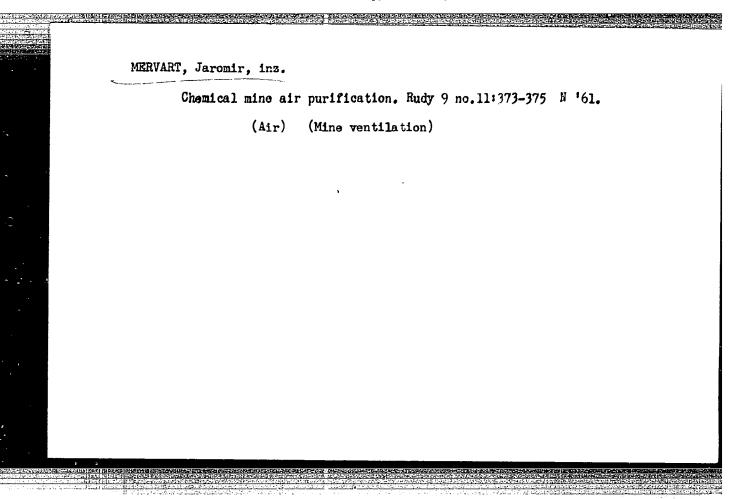
Nay 1 52, notacs.

MERVART, J.

"Larger borings from the point of view of basic parameters of the boring technique."

RUDY. Praha, Czechoslovakia. Vol. 7, no. 1, Jan. 1959.

Monthly list of East European Accessions (EEAI), LC, VCL. 8, No. 6, Jun 59, Unclas.



MERVART, Jaroslav, inz., CSc.; NOVOTNY, Milan, inz., CSc.

Some economic problems in timber transportation. Les cas 9 no. 11: 959-974 N '63.

1. Vyzkumny ustav lesniho hospodarstvi a myslivosti, Zbraslav-Strnady.

MERVART, Jaroslav; KOHOPASEK, Jaroslav

Some urgent problems concerning the total cost indexes of forest production. Les cas 10 no.5:433-448 My '64.

1. Research Institute of Forestry and Game Protection, Zbraslav (for Mervart). 2. Ministry of Agriculture, Forestry and Water Resources Management, Prague (for Konopasek).

MERVART, Fozef [Mervart, Josef]; 20TOV, B.D.[translator]; SEMENOV,
I.I.[translator]; ROGINSKIY, G.S., prof., red.; BORODIN,
Yu.V., red.; GOLICHENKOVA, A.A., tekhn. red.; PEZUKHOVA, A.G.,
tekhn.red.

[Price determination in international commerce] TSenoobrazovanie v mezhdunarodnoi torgovle. Pod red. i so vstup. stat'ei
G.S.Roginskogo. Moskva, Izd-vo inostr. lit-ry, 1962. 350 p.

(Prices) (Commerce)

(MIRA 15:12)

MERVART, V.

MERVART, V. Some principles of a prepared draft for a new electrification law. p. 503.

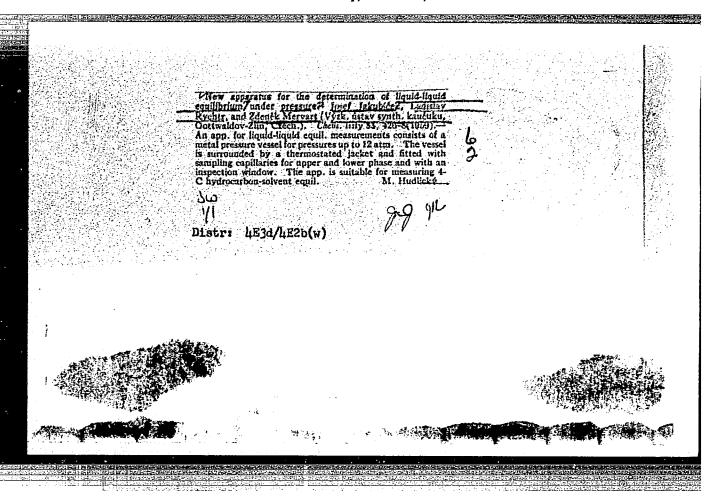
Vol. 6, no. 12, Dec. 1956 ENERGETIKA TECHNOLOGY Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

MERVART, Z.; KREN, J.

Phase equilibrium in the 1,3-butadien-acetone-water system under increased pressure. In German. Coll.Cz.Chem. 24 no.11:3688-3692 N *59. (EEAI 9:5)

1. Forschungsinstitut für synthetischen Kautschuk, Gottwaldov. (Phase rule and equilibrium) (Butadiene) (Acetone) (Water) (Systems (Chemistry))



z/009/60/000/03/006/0²⁸ E142/E235

Mervart, Z., Kren, J., and Loucka, P

Economic Analysis of the Effect of the Properties of AUTHORS: TITLE:

Solvents on the Separation of 1,3-Butadiene by

Extraction Rectification

PERIODICAL: Chemický průmysl, 1960, Nr 3, pp 132-135

ABSTRACT: The separation of the C4 hydrocarbon fraction, which is important in the manufacture of butadiene rubber, can be carried out by extraction rectification, using polar liquids which are selective for hydrocarbons with lower degree of saturation. Furfural, containing 4% of water degree of saturation. Furfural, containing 4% of water (aqueous furfural), has been used by various authors for separating 1,3-butadiene (Refs 1 to 4). The authors investigated the possibility of using as solvent a investigated the possibility of using as solvent a mixture of acetone, containing 18% of water (aqueous acetone) and bis (2-chloroethyl) ether ("chlorex") (Ref 5) acetone) and bis (2-chloroethyl) ether (Figs 1 and 2). Flow sheets for both methods are given (Figs 1 and 2).

The effect of the solvents on the relative volatility of the hydrocarbons, on the solubility of the hydrocarbons in the solvents, and on their properties under

industrial conditions were compared (Table 1). The Card 1/2 decisive economical factors were found to be the

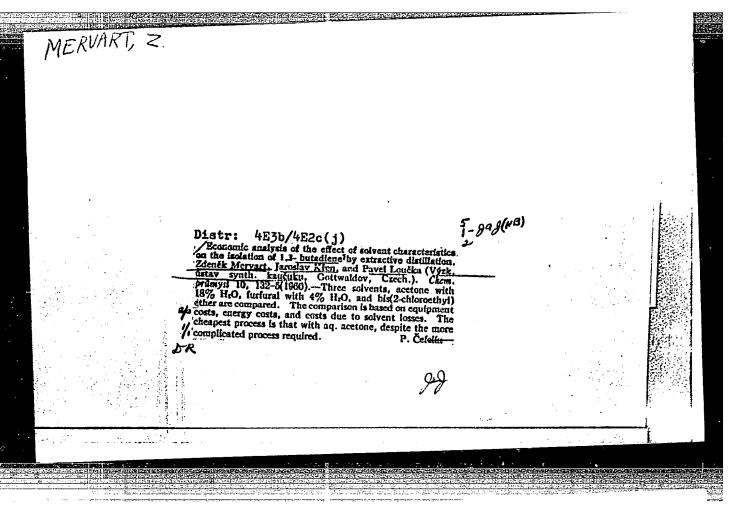
z/009/60/000/03/006/028 E142/E235

Economic Analysis of the Effect of the Properties of Solvents on the Separation of 1,3-Butadiene by Extraction Rectification

corrosive and thermal properties of the solvents and the solubility of liquid hydrocarbons. Cost estimates for machinery when using aqueous acetone, aqueous furfural and chlorex are compared in Tables 2 and 3. Data on power consumption per ton of butadiene are compared in Table 4. The authors conclude that aqueous acetone is most satisfactory from an economical point of view, in spite of the fact that its use involves a more complicated technological process. There are 2 figures, 7 tables and 9 references, 2 of which are Czech, 6 English and

ASSOCIATION: Kaučuk, n.p., Výzkumný ústav syntetického kaučuku, Gottwaldov (Kaucuk n.p., Research Institute for SUBMITTED: October 28, 1959

Card 2/2



MERVART, Z.; KUBINOVA, M.; ZELIKOVA, V.

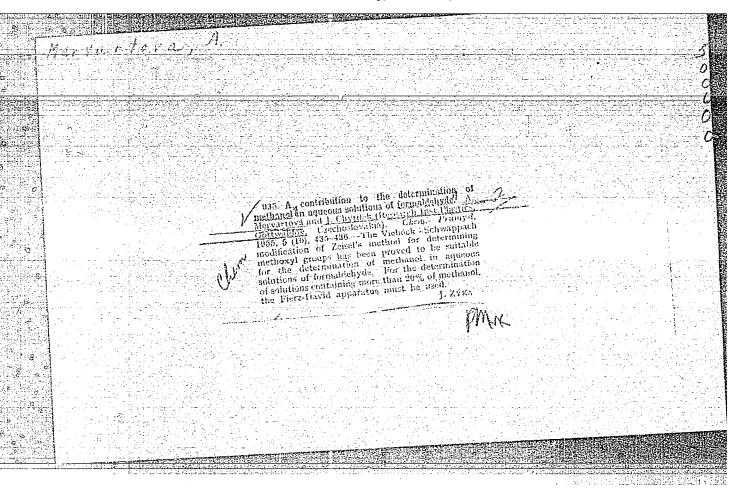
Equilibrium of liquid and vapor. Part 27: Phase balance in the isoprenemethanol system under atmospheric pressure. Coll Cz Chem 26 nc.10: 2480-2483 0 161.

1. Kaucuk, Forschungsinstitut für synthetischen Kautschuk, Gottwaldov.

ANDRASINA, J.; MILAR, A.; MERVART, Z.

Clinical experiences in surgery with 20 albumin containing ethanol. Rozh. chir. 43 no.4:221-226 Ap 164.

l. Vedecke laboratorium chirurgickej kliniky Lekarskej fakulty PUJS v Kosiciach a Ustav ser a ockovacich latok Praha, pob. Sarisske Michalany.



TALINSKY, Ladislav; MERVAR TOVA, Kveta

Critique of own results of five-year survival in breast cancer.

Cesk. onkol. 3 no.3:215-222 1956.

1. Chirurgische Klinik der hygienischen Fakultat der Karls Univ.
in Prag.

(BREAST CANCER, surgery.
postop. 5-year survival rate (Ger))

MERVARTOVA, Kveta Organization of regulation control of neoplastic diseases of the breast. Cesk. onkol. 3 no.3:223-227 1956. 1. Chirurg. Klinik der hygienischen Fakultat der Karls Univ. in Prag. (BREAST NEOPLASMS, prevention and control, in Czech. (Ger))

USSR/Chemical Technology - Chemical Products and Their

Application -- Chemical Nuclear Engineering Questions

Abs Jour

: Ref Zhur | Khimiya, No 3, 1957, 8760

Author

: Mervin, C., Upchurch, T. Greenleaf, E. Borkin E.

and Murphy, A

Inst

Title

: Extraction of Uranium from Ores.

Orig Pub

: Khimiya yadernogo gorysch-go / The Chemistry of Na lea: Fuels 7 (Dokl. in. uchenyko na Mezhdunar. konferentsii po miromu ispolizovaniya atom. energii, Zhenava. 1955 Reports presented by foreign scientists at the International Conference on the Peaceful Applications of Atomic Energy, Geneva. 1955 /, Goskhimizdat, Mossow,

1956, 91-101

Abstract : A survey. The primary ones are decomposed with toncentra ted acids; the secondary ores are treated with sikali (including Na_2CO_3 , $NaHCO_3$, $(NH_4)_2CO_3$). The choice of

Card 1/3

USSR/Chemical Technology - Chemical Products and Their Application, I-2 Chemical Nuclear Engineering Questions.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 8760

of disintegration method depends on the composition of the ore. An increase in the contact time, temperature (20-90°) and in the grain size (from 10-20 mesh) in the acid-leach process leads to a gradual increase in the percent extraction of U. The addition of oxidizing substances increases the yield of U; the utilization of MnO2 in amounts of 5 kg per ton of ore has proven most economical. The effect of the above-enumerated factors is the same in the alkaline-leach method. The precipitation and filtration of muddy residues causes some difficulty in the treatment of the ores. New chemical flocculation agents have been developed to improve the settling of the cake after leaching. The separation of U from the cake and from the solutions is carried out by one of the following methods: chemical precipitation, used in the treatment of ores which give easily filterable solutions (mainly by

Card 2/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R00105-

USSR/Chemical Technology - Chemical Products and Their I-2
Application, Chemical Nuclear Engineering Questions.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 8760

precipitation with alkali from bicarbonate solutions); fixedbed ion exchange (for the extraction of U from clarified sulfuric acid solutions); moving-bed ion exchange; and organic extreaction (extraction of U from phosphoric acid solutions).

ANDRASINA, J.; MERWART, Zd.; MILAR, A.; technicky spolupracovali: KRUPOVA, C.; SLANINOVA, B.; SPISIAKOVA, M.

Albumin as a substitute for protein solutions in snock control. (Experience with 20 per cent albumin produced in Czechoslovakia). Rozhl. chir. 41 no.10:641-653 0 '62.

1. Vedecke laboratorium chirurgickej kliniky Lekarskej fakulty
Univerzity P.J.Safarika v Kosiciach, riaditel prof. dr. J. Knazovicky
Ustav ser a ockovacich latok, Praha, pobocka Sarisske Michalany.

(SHOCK) (ALBUMINS) (PLASMA SUBSTITUTES)